CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Lab No.: CQCE/BBMP/PRN/W No.16/2020-21 Date: 04.05.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),**
Name of Work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.
Sample Identification : 8mm, 12mm, 16mm, 20mm, 25mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 04.05.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	543	615	13.5
2	Fe 500	12	0.89	559	629	15.5
3	Fe 500	16	1.58	568	624	14
4	Fe 500	20	2.47	576	635	16.5
5	Fe 500	25	3.86	589	649	15

Remarks:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

AE / JE (P) RRN

Assistant Executive Engineer
R.R. Nagar Project Sub-Division-01
Bruhat Bengaluru Mahanagara Palike

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/SRS/W.No.152/2020-21 Date: 11.05.2020

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

Name of Work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Reference to BIS co IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification
: IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test: : 04.05.2020 to 11.05.2020

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.9	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.5	
3	5.6	
4	5.8	
5	6.1	
Average of 5 bricks	5.8	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.9	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.6	
3	11.5	
4	11.2	
5	10.8	
Average of 5 bricks	**11.0**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2170	2160 to 2240 mm
3	Height	1395	1360 to 1440 mm

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Job No.: CQCE/BBMP/PRN/W No.16/2020-21 27.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

Contractor : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

Name of the work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.05.2020	27.05.2020	8.169	389.6	17.32
2	20.05.2020	27.05.2020	8.135	395.3	17.57
3	20.05.2020	27.05.2020	8.158	405.1	18.00

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Job No.: CQCE/BBMP/PRN/W No.16/2020-21 17.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

Contractor : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

Name of the work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.05.2020	17.06.2020	8.168	606.3	26.95
2	20.05.2020	17.06.2020	8.184	619.3	27.52
3	20.05.2020	17.06.2020	8.159	635.2	28.23

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Contractor : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

Name of the work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.05.2020	27.05.2020	8.184	399.6	17.76
2	20.05.2020	27.05.2020	8.169	405.2	18.01
3	20.05.2020	27.05.2020	8.154	416.2	18.50

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.05.2020	17.06.2020	8.188	616.3	27.39
2	20.05.2020	17.06.2020	8.176	635.2	28.23
3	20.05.2020	17.06.2020	8.192	624.8	27.77

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25.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

Contractor : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

Name of the work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.06.2020	25.06.2020	8.166	398.6	17.72
2	18.06.2020	25.06.2020	8.138	405.2	18.01
3	18.06.2020	25.06.2020	8.152	416.3	18.50

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